•		
	Application No.	Applicant(s)
	10/633,071	MCLNTYRE ET AL.
Notice of Allowability	Examiner	Art Unit
	Ryan Lepisto	2883
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. \boxtimes This communication is responsive to <u>amendment filed 10/2</u>	<u>27/2006</u> .	
2. The allowed claim(s) is/are 2-14.		
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	E C Nation of Information	latant Amuliantic -
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	(PTO-413), te
3. Information Disclosure Statements (PTO/SB/08),	7. Examiner's Amenda	ment/Comment
Paper No./Mail Date 11/63 4. Examiner's Comment Regarding Requirement for Deposit	8. Examiner's Statement	ent of Reasons for Allowance
of Biological Material	9.	

Application/Control Number: 10/633,071

Art Unit: 2883

DETAILED ACTION

Allowable Subject Matter

Claims 2-14 are allowed.

The following is an examiner's statement of reasons for allowance:

With regard to claims 5 and 10: These claims are allowable over the prior art of record because the latter, either alone or in combination, does not disclose nor render obvious a method of optically interconnecting layers in an optical integrated circuit including a substrate by forming a first optical transmission layer over the substrate, forming a first cladding layer on the first optical transmission layer, removing portions of the first cladding layer to form an angled sidewall in the first cladding layer by forming mesa structures at desired locations and removing the mesa structures and portions of the cladding and forming an optical interconnect layer on the angled sidewall of the first cladding layer and on an exposed portion of the first optical transmission layer or forming a second cladding on the first interconnect layer and forming a sidewall in the same fashion or a method of optically interconnecting layers in an optical integrated circuit including a substrate by forming a first optical transmission layer over the substrate, forming a first cladding layer on the first optical transmission layer, removing portions of the first cladding layer to form an angled sidewall in the first cladding layer and forming an optical interconnect layer on the angled sidewall of the first cladding layer and on an exposed portion of the first optical transmission layer or by removing portions of the first transmission layer and forming a first dielectric layer in the void, removing portions of the first dielectric layer to planarize upper surfaces of the layer in

the void regions and forming a first cladding layer on the planarized surface, forming mesa structures on the first cladding, removing the mesa structure to form the angled sidewall and forming a second optical transmission layer on the angled sidewall, in combination with the rest of the claimed limitations.

With regard to claims 2-4, 6-9 and 11-14: These claims are allowable over the prior art of record because they depend on allowable claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan Lepisto whose telephone number is (571) 272-1946. The examiner can normally be reached on M-Th 7:30 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/633,071

Art Unit: 2883

Page 4

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ryan Lepisto Art Unit 2883

Date: 11/15/06

Frank Font

Supervisory Patent Examiner Technology Center 2800

Frank & Fort